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Dated: 3/7/05 Signature: (David J. Powsner)

Docket No.: 103488-0021
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Howard Greenblatt et al.

Application No.: 10/680,049

Confirmation No.: 8291

Filed: October 7, 2003

Art Unit: 2172

For: METHODS AND APPARATUS FOR
IDENTIFYING RELATED NODES IN A
DIRECTED GRAPH HAVING NAMED
ARCS

Examiner: F. I. Ehichioya

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. The publications cited herein were previously referenced in the Petition to Make Special filed September 28, 2004. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue there from.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

Copies of the references on the PTO/SB/08 are not provided.

Our check in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p) is enclosed. The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 141449, under Order No. 103488-0021.

Dated: 3/7/05

Respectfully submitted,

By 

David J. Powsner

Registration No.: 31,868

NUTTER MCCLENNEN & FISH LLP

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(617) 439-2000

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Attorney for Applicant



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Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/680,049-Conf. #8291
				Filing Date	October 7, 2003
				First Named Inventor	Howard Greenblatt
				Art Unit	2172
				Examiner Name	F. I. Ehichioya
Sheet	1	of	1	Attorney Docket Number	103488-0021

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	US-4,953,106	08-28-1990	EMDEN R. GANSNER	
	AB	US-5,333,254	07-26-1994	GEORGE G. ROBERTSON	
	AC	US-5,339,390	08-16-1994	GEORGE G. ROBERTSON	
	AD	US-5,450,480	09-12-1995	SUSAN KUO-KUNG MAN	
	AE	US-5,463,682	10-31-1995	GREGORY M. FISHER	
	AF	US-5,579,486	11-26-1996	FLORIN OPRESCU	
	AG	US-5,608,789	03-04-1997	GREGORY M. FISHER	
	AH	US-5,732,192	03-24-1998	JANE T. MALIN	
	AI	US-5,809,212	09-15-1998	DENNIS SHASHA	
	AJ	US-5,995,958	11-30-1999	KEVIN HOUZHI XU	
	AK	US-6,094,652	07-25-2000	MOHAMMAD FAISAL	
	AL	US-6,151,595	11-21-2000	PETER L.T. PIROLI	
	AM	US-6,185,534	02-06-2001	JOHN S. BREESE	
	AN	US-6,369,819	04-09-2002	JAMES E. PITKOW	
	AO	US-6,381,738	04-30-2002	JONG-DEOK CHOI	
	AP	US-6,437,799	08-20-2002	HIDEAKI SHINOMI	
	AQ	US-6,509,898-A1	06-06-2002	ED H. CHI	
	AR	US-6,530,079	03-04-2003	JONG-DEOK CHOI	
	AS	US-6,643,638	11-04-2003	Kevin Xu	
	AT	US-5,987,415	11-16-1999	JOHN S. BREESE	
	AU	US-6,212,502	04-03-2001	JOHN EUGENE BALL	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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1372749



PTO/SB/92 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Application No. (if known): 10/680,049

Attorney Docket No.: 103488-0021

Certificate of Mailing under 37 CFR 1.8

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on

3/7/05

Date

Signature

David J. Powsner

Typed or printed name of person signing Certificate

31,868

Registration Number, if applicable

617-439-2000

Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

IDS (Citation) by Applicant



FEE TRANSMITTAL for FY 2005

Effective 10/31/2004. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)
180.00

Complete if Known

Application Number 10/680,049-Conf. #8291
Filing Date October 7, 2003
First Named Inventor Howard Greenblatt
Examiner Name F. I. Ehichioya
Art Unit 2172
Attorney Docket No. 103488-0021

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None

Deposit Account:

Deposit Account Number

141449

Deposit Account Name

Nutter McClennen & Fish LLP

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments
☒ Charge any additional fee(s) or any underpayment of fee(s)
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	430	2252	215	Extension for reply within second month	
1253	980	2253	490	Extension for reply within third month	
1254	1,530	2254	765	Extension for reply within fourth month	
1255	2,080	2255	1,040	Extension for reply within fifth month	
1401	340	2401	170	Notice of Appeal	
1402	340	2402	170	Filing a brief in support of an appeal	
1403	300	2403	150	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,370	2453	685	Petition to revive - unintentional	
1501	1,370	2501	685	Utility issue fee (or reissue)	
1502	490	2502	245	Design issue fee	
1503	660	2503	330	Plant issue fee	
1800	130	1800	130	Patrons to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	180.00
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	790	2809	395	Filing a submission after final rejection (37 CFR 1.129(a))	
1610	790	2810	395	For each additional invention to be examined (37 CFR 1.129(b))	
1801	790	2801	395	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)
180.00

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	790	2001	395	Utility filing fee	
1002	350	2002	175	Design filing fee	
1003	550	2003	275	Plant filing fee	
1004	790	2004	395	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$)
0.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims		Extra Claims		Fee from below		Fee Paid
Independent	Dependent	Claims	Claims	Claims	Claims	

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1202	18	2202	9	Claims in excess of 20	
1201	88	2201	44	Independent claims in excess of 3	
1203	300	2203	150	Multiple dependent claim, if not paid	
1204	88	2204	44	** Reissue independent claims over original patent	
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2) (\$)
0.00

**or number previously paid, if greater; For Reissues, see above

SUBMITTED BY

Name (Print/Type) David J. Powsner

Registration No. 31,868
(Attorney/Agent)

(Complete (if applicable))

Telephone (617) 439-2000

Signature

Date

3/7/05

Fee Transmittal

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Dated: 3/7/05

Signature: [Signature]

(David J. Powsner)



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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/680,049-Conf. #8291
	Filing Date	October 7, 2003
	First Named Inventor	Howard Greenblatt
	Art Unit	2172
	Examiner Name	F. I. Ehichioya
Total Number of Pages in This Submission	Attorney Docket Number	103488-0021

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input checked="" type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	IDS Citation by Applicant (2 pages)
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	Return Receipt Postcard (in duplicate)
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Landscape Table on CD	Check in the amount of \$180.00
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	NITTER MCCLENNEN & FISHLIP		
Signature			
Printed name	David J. Powsner		
Date	3/7/05	Reg. No.	31,868

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Dated: 3/7/05	Signature: (David J. Powsner)